

1       **51511/DJB/M743**

WHAT IS CLAIMED IS:

5           1.    A data card reader for reading data from a data card  
possessing an integrated circuit and/or a magnetic stripe,  
comprising:

          guiding walls that form a channel and that are connected  
to a receiver having an interior surface;

10          a magnetic reading head mounted on one of the guiding  
walls;

          electrical contacts located on the interior surface of  
the receiver; and

          a latch extending at least partially across the channel  
15       formed by the guiding walls.

          2.    The data card reader of claim 1, further comprising:  
a chassis cavity;

          wherein the latch is partially located inside the chassis  
20       cavity and includes a spring loaded slider.

          3.    The data card reader of claim 2, further comprising:  
a motor connected to the latch; and

          wherein the position of the latch is controlled using the  
25       motor.

          4.    The data card reader of claim 1, wherein the latch  
is pivotally mounted.

30          5.    The data card reader of claim 4, further comprising:  
a motor connected to the latch; and

          wherein the latch position is controlled using the motor.

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6.    The data card reader of claim 1, wherein:

5       the data card cannot move through the channel past the  
latch, when the latch extends at least partially across the  
channel; and

      the latch is capable of moving so that a data card can  
pass through the channel.

10       7.    A data card reader for reading data from a data card  
possessing an integrated circuit and/or a magnetic stripe,  
comprising:

      guiding walls that form a channel and that are connected  
to a receiver having an interior surface;

15       a magnetic reading head mounted on one of the guiding  
walls;

      electrical contacts located on the interior surface of  
the receiver;

20       wherein the receiver comprises a base, a rear wall and  
side walls;

      wherein the side walls form an entrance to the receiver;

      wherein at least one of the base, rear wall or a side  
wall is located to have a surface that contacts the card when  
it is located within the receiver; and

25       wherein friction between the surface in contact with the  
card resists removal of the card from the receiver.

8.    The data card reader of claim 7, wherein the  
receiver further comprises a top wall.

30       9.    The data card reader of claim 7, wherein the side  
walls are also configured to form an opening in the top of the  
receiver.

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10. The data card reader of claim 9, wherein:

5       the interior surface of the receiver is configured to contact the surface of the data card, when the data card is within the receiver; and

friction between the interior surface and the data card resists removal of the data card from the opening in the top  
10 of the receiver.

11. The data card reader of claim 7, wherein an interior surface of the receiver contains compressible features.

15       12. A data card reader for reading data from a data card possessing an integrated circuit and/or a magnetic stripe, comprising:

guiding walls that form a channel and that are connected to a receiver having an interior surface;

20       a magnetic reading head mounted on one of the guiding walls;

electrical contacts located on the interior surface of the receiver; and

25       at least one clip that engages a data card inserted into the receiver;

wherein friction between the clip and the data card resists removal of the data card from the receiver.

30       13. A data card reader for reading data from a data card possessing an integrated circuit and/or a magnetic stripe, comprising:

guiding walls that form a channel and that are connected to a receiver having an interior surface;

35       a magnetic reading head mounted on one of the guiding walls;

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          electrical contacts located on the interior surface of  
the receiver;

5        wherein the receiver comprises:

          a base;

          side walls; and

          a roller mounted in a side wall of the receiver;

          wherein the side walls form an entrance to the  
10 receiver and an opening in the top of the receiver;

          wherein the roller is configured to rotate as the  
data card is inserted into the receiver through the receiver  
entrance; and

          wherein friction between the surface of the roller  
15 and the data card resists removal of the data card from the  
opening in the top of the receiver.

          14. The data card reader of claim 13, wherein the roller  
is non-axisymmetrical.

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          15. A data card reader for reading data from a data card  
possessing an integrated circuit and/or a magnetic stripe,  
comprising:

          guiding walls that form a channel and that are connected  
25 to a receiver having an interior surface;

          a magnetic reading head mounted on one of the guiding  
walls;

          electrical contacts located on the interior surface of  
the receiver;

30        wherein the receiver comprises:

          at least two side walls;

          a rotating wedge mounted in one of the side walls;

and

          a card guide located on the opposite side wall;

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wherein the rotating wedge occupies a first position  
prior to entry of a data card into the receiver;

5            wherein inserting a data card into the receiver when  
the rotating wedge is in the first position, causes the  
rotating wedge to rotate to a second position;

          wherein attempting to remove a data card from the  
receiver when the rotating wedge is in the second position  
10 causes the rotating wedge to force the data card against the  
card guide in a manner that resists the removal of the data  
card.

16. The data card reader of claim 15, wherein the  
15 pivoting wedge comprises a spring loaded wheel housed within a  
ramped cavity in a side wall of the receiver.

17. The data card reader of claim 15, wherein the  
pivoting wedge comprises a wedge arm pivotally mounted within  
20 a cavity in one of the side walls of the receiver.

18. A data card reader for reading data from a data card  
possessing an integrated circuit and/or a magnetic stripe,  
comprising:

25            guiding walls that form a channel and that are connected  
to a receiver an interior surface;

          a magnetic reading head mounted on one of the guiding  
walls;

          electrical contacts located on the interior surface of  
30 the receiver; and

          a sensor configured to detect movement of a card inserted  
into the receiver.

19. The data card reader of claim 18, wherein the sensor  
35 is configured to detect movement in excess of 50 mils.

5           20. The data card reader of claim 18, wherein the sensor  
is configured to detect movement in excess of 20 mils.

          21. The data card reader of claim 18, wherein the sensor  
is configured to detect movement in excess of 10 mils.

10          22. A data card reader for reading data from magnetic  
stripes located on data cards and from integrated circuits  
located on data cards, comprising:

          means for guiding the magnetic stripe on the data card  
past a magnetic reading head; and

15          receiving means for receiving the data card from the  
guiding means;

          communicating means for communicating with the integrated  
circuit located on the data card; and

20          means for resisting removal of the data card from the  
receiver.

          23. A method of reading data from a data card including  
a magnetic stripe and/or an integrated circuit having a set of  
contacts, comprising the steps of:

25          moving the magnetic stripe relative to a magnetic reading  
head;

          applying forces to the card that resist motion of the  
card; and

30          reading data from the card while the forces that resist  
motion of the card are applied to the card.